

EXHIBIT 5

Applicants: Jan Wendelin Stark, et al.

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Partial Translation

JP Patent Application Disclosure No. 2001-39716 – 13 February 2001

Application No. 11-214928 – 29 July 1999

Applicant: TOSOH CORPORATION, Yamaguchi (JP)

Title: METHOD OF MANUFACTURING ZIRCONIA FINE POWDER

[Excerpt of the descriptive part of the specification]

[0001]

[Technical Field of the Invention]

The invention of the present application relates to a method of manufacturing zirconia fine powder used in manufacturing of zirconia ceramics. Particularly, it is an object to provide a method of manufacturing zirconia fine powder in which a compound of an organic binder and zirconium powder has a good fluidity and exhibits good molding characteristics in injection molding.

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PRODUCTION OF ZIRCONIA FINE POWDER

Publication number: JP2001039716 (A)

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Applicant(s): TOSOH CORP +

Classification:

- international: C04B35/626; C01G25/02; C04B35/48; C04B35/626; C01G25/00; C04B35/48; (IPC1-7): C01G25/02; C04B35/48; C04B35/626

- European:

Application number: JP19990214928 19990729

Priority number(s): JP19990214928 19990729

Abstract of JP 2001039716 (A)

PROBLEM TO BE SOLVED: To produce zirconia fine powder to obtain a compound having good molding characteristics in a injection molding. **SOLUTION:** This method for producing the zirconia fine powder comprises a process for hydrolyzing or neutralizing and coprecipitating an aqueous solution of a zirconium salt or an aqueous solution of a zirconium salt containing a stabilizer and of drying the obtained hydrated zirconia sol into powder, and a process for calcining and pulverizing the dried powder. In the pulverizing process, the powder is pulverized so that the specific surface area (BET method) of the pulverized powder is larger by ≥ 2 m²/g than the specific surface area of the calcined powder. Moreover, the powder contains one or more kinds of sintering aids selected from zirconium oxychloride, zirconium chloride, zirconium nitrate and zirconium sulfate. The proportion of Zr included in the zirconium salt is specified to ≥ 3 wt.% and ≤ 30 wt.% of the total Zr.

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